

### Abstract of the Disclosure

A light pipe for separating incident light according to color, a color illumination system adopting the light pipe, and a projection system adopting the color illumination system are provided. Since the projection system is a single-panel projection system adopting a scrolling unit, its optical configuration is simplified. Also, the light pipe of the projection system is comprised of different-sized color separation units, thus improving the color gamut and the color temperature. Further, the light pipe includes color selection polarizers, each of which changes the polarization direction of a color beam with a specific wavelength, thereby improving light efficiency.